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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/580,119	05/30/2000	Leif Magnus Andre Nilsson	040070-666	1475
21839 75	90 01/14/2004	EXAMINER		
BURNS DOANE SWECKER & MATHIS L L P POST OFFICE BOX 1404			ODOM, CURTIS B	
	IA, VA 22313-1404		ART UNIT	PAPER NUMBER
	•		2634	75
			DATE MAILED: 01/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	09/580,119	NILSSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Curtis B. Odom	2634				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 16 O	<u>ctober 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☐ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-8,10-24 and 26-39 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 13-20 and 29-37 is/are allowed. 6) Claim(s) 1 and 21 is/are rejected. 7) Claim(s) 2-8,10-12,22-24 and 26-28 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers	•					
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>16 October 2003</u> is/are:	: a)⊠ accepted or b)⊡ objected	to by the Examiner.				
Applicant may not request that any objection to the	- · · · · · · · · · · · · · · · · · · ·	, ,				
_ ,	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120		•				
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document: 2. ☐ Certified copies of the priority document: 3. ☐ Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 13) ☒ Acknowledgment is made of a claim for domesti since a specific reference was included in the first 37 CFR 1.78. a) ☐ The translation of the foreign language pro 14) ☐ Acknowledgment is made of a claim for domesti reference was included in the first sentence of the second content of the foreign language pro 14) ☐ Acknowledgment is made of a claim for domesti reference was included in the first sentence of the second content of of t	s have been received. s have been received in Application rity documents have been received in (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(a) st sentence of the specification of the covisional application has been received priority under 35 U.S.C. §§ 120	on No ed in this National Stage ed. e) (to a provisional application) in an Application Data Sheet. eeived. and/or 121 since a specific				
Attachment(s)	🗖 <u>-</u>	1070				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Nauta et al. (U.S. Patent No. 5, 710, 256).

Regarding claim 1, Nauta et al. discloses a phase detector (Fig. 10, block 1), comprising: a first input (Fig. 10. block 1, column 12, lines 50-57) that receives a reference signal; a second input (Fig. 10, block 1, column 12, lines 58-61) that receives a comparison signal;

a comparison circuit (Fig. 10, block 18, column 13, lines 9-25) that compares a phase of the reference clock signal (first combination signal) with a phase of a signal having a frequency that is twice that of the comparison signal (second combination signal).

Regarding claim 21, the claimed method includes features corresponding to subject matter mentioned in the above rejection of claim 1 which is applicable hereto.

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Allowable Subject Matter

3. Claims 13-20 and 29-39 are allowable over prior art because related references do not disclose a phase detector having inputs of a reference signal and a comparison signal which generates a phase difference signal that represents a phase difference between the reference signal and a signal having twice the frequency of the comparison signal, wherein the phase detector comprises of a circuit that generates a comparison signal from a divided frequency signal, wherein the comparison signal has one half the frequency of the divided frequency signal.

Claims 2-8, 10-12, 22-24, and 26-28 are objected to as being dependent upon a rejected 4. base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Curtis B. Odom whose telephone number is 703-305-4097. The examiner can normally be reached on Monday- Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone numbers for the organization where this application or proceeding is assigned are 709-872-9306 for regular communications and 703-872-9306 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Curtis Odom January 6, 2004

STEPHEN CHIN

SUPERVISORY PATENT EXAMINF TECHNOLOGY CENTER 2600